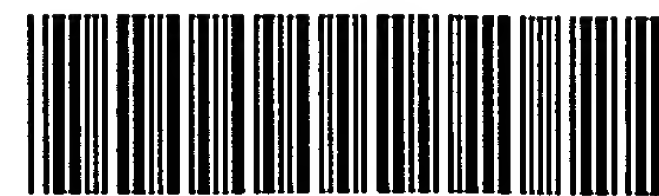


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/920,137G  
Source: 1FW16  
Date Processed by STIC: 1/19/06

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 01/19/2006

PATENT APPLICATION: US/09/920,137G

TIME: 12:23:51

Input Set : N:\SMITH\PTO.TS18.txt

Output Set: N:\CRF4\01192006\I920137G.raw

5 <110> APPLICANT: Giles-Komar, Jill; David Shealy; David Knight; Bernie  
 6 Scallon; George Heavner  
 8 <120> TITLE OF INVENTION: ANTI-TNF ANTIBODIES, COMPOSITIONS, METHODS AND USES  
 10 <130> FILE REFERENCE: CEN0250 NP  
 12 <140> CURRENT APPLICATION NUMBER: US 09/920,137G  
 13 <141> CURRENT FILING DATE: 2001-08-01  
 15 <150> PRIOR APPLICATION NUMBER: 60/223,360  
 16 <151> PRIOR FILING DATE: 2000-08-07  
 18 <150> PRIOR APPLICATION NUMBER: 60/236,826  
 19 <151> PRIOR FILING DATE: 2000-09-29  
 21 <160> NUMBER OF SEQ ID NOS: 35  
 23 <170> SOFTWARE: PatentIn Ver 3.1  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 5  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Homo sapiens  
 30 <220> FEATURE:  
 31 <221> NAME/KEY: MISC\_FEATURE  
 32 <222> LOCATION: (1)..(5)  
 33 <223> OTHER INFORMATION: Heavy Chain complementarity determinng region 1 (CDR1).  
 36 <400> SEQUENCE: 1  
 38 Ser Tyr Ala Met His  
 39 1 5  
 42 <210> SEQ ID NO: 2  
 43 <211> LENGTH: 17  
 44 <212> TYPE: PRT  
 45 <213> ORGANISM: Homo sapiens  
 47 <220> FEATURE:  
 48 <221> NAME/KEY: MISC\_FEATURE  
 49 <222> LOCATION: (1)..(17)  
 50 <223> OTHER INFORMATION: Heavy Chain complementarity determinng region 2 (CDR2).  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: MISC\_FEATURE /  
 54 <222> LOCATION: (1)..(1)  
 55 <223> OTHER INFORMATION: Xaa at position 1 is selected from Ile, Phe or Val.  
 57 <220> FEATURE:  
 58 <221> NAME/KEY: MISC\_FEATURE ✓  
 59 <222> LOCATION: (2)..(2)  
 60 <223> OTHER INFORMATION: Xaa at position 2 is selected from Ile or Met.  
 62 <220> FEATURE:  
 63 <221> NAME/KEY: MISC\_FEATURE  
 64 <222> LOCATION: (3)..(3) ✓  
 65 <223> OTHER INFORMATION: Xaa at position 3 is selected from Ser or Leu.

## RAW SEQUENCE LISTING

DATE: 01/19/2006

PATENT APPLICATION: US/09/920,137G

TIME: 12:23:51

Input Set : N:\SMITH\PTO.TS18.txt

Output Set: N:\CRF4\01192006\I920137G.raw

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67 <220> FEATURE:
68 <221> NAME/KEY: MISC_FEATURE
69 <222> LOCATION: (4)..(4)
70 <223> OTHER INFORMATION: Xaa at position 4 is selected from Tyr or Phe.
72 <220> FEATURE:
73 <221> NAME/KEY: MISC_FEATURE
74 <222> LOCATION: (10)..(10)
75 <223> OTHER INFORMATION: Xaa at position 10 is selected from Lys or Tyr.
77 <220> FEATURE:
78 <221> NAME/KEY: MISC_FEATURE
79 <222> LOCATION: (11)..(11)
80 <223> OTHER INFORMATION: Xaa at position 11 is selected from Ser or Tyr.
82 <220> FEATURE:
83 <221> NAME/KEY: MISC_FEATURE
84 <222> LOCATION: (17)..(17)
85 <223> OTHER INFORMATION: Xaa at position 17 is selected from Asp or Gly.
88 <400> SEQUENCE: 2
W--> 90  Xaa Xaa Xaa Xaa Asp Gly Ser Asn Lys Xaa Xaa Ala Asp Ser Val Lys Xaa
      91      1              5              10              15
93 <210> SEQ ID NO: 3
94 <211> LENGTH: 17
95 <212> TYPE: PRT
96 <213> ORGANISM: Homo sapiens
98 <220> FEATURE:
99 <221> NAME/KEY: MISC_FEATURE
100 <222> LOCATION: (1)..(17)
101 <223> OTHER INFORMATION: Heavy Chain complementarity determinng region 3 (CDR3).
103 <220> FEATURE:
104 <221> NAME/KEY: MISC_FEATURE
105 <222> LOCATION: (4)..(4)
106 <223> OTHER INFORMATION: Xaa at position 4 is selected from Ile or Val.
108 <220> FEATURE:
109 <221> NAME/KEY: MISC_FEATURE
110 <222> LOCATION: (5)..(5)
111 <223> OTHER INFORMATION: Xaa at position 5 is selected from Ser, Ala or Gly.
113 <220> FEATURE:
114 <221> NAME/KEY: MISC_FEATURE
115 <222> LOCATION: (9)..(9)
116 <223> OTHER INFORMATION: Xaa at position 9 is selected from Asn or Tyr.
118 <400> SEQUENCE: 3
W--> 120  Asp Arg Gly Xaa Xaa Ala Gly Gly Xaa Tyr Tyr Tyr Tyr Gly Met Asp Val
      121  1              5              10              15
123 <210> SEQ ID NO: 4
124 <211> LENGTH: 11
125 <212> TYPE: PRT
126 <213> ORGANISM: Homo sapiens
128 <220> FEATURE:
129 <221> NAME/KEY: MISC_FEATURE
130 <222> LOCATION: (1)..(11)

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## RAW SEQUENCE LISTING

DATE: 01/19/2006

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Input Set : N:\SMITH\PTO.TS18.txt

Output Set: N:\CRF4\01192006\I920137G.raw

131 <223> OTHER INFORMATION: Light Chain complementarity determinng region 1 (CDR1).  
 133 <220> FEATURE:  
 134 <221> NAME/KEY: MISC\_FEATURE  
 135 <222> LOCATION: (7)..(7)  
 136 <223> OTHER INFORMATION: Xaa at position 7 is selected from Ser or Tyr.  
 138 <400> SEQUENCE: 4  
 W--> 140 Arg Ala Ser Gln Ser Val Xaa Ser Tyr Leu Ala  
 141 1 5 10  
 143 <210> SEQ ID NO: 5  
 144 <211> LENGTH: 7  
 145 <212> TYPE: PRT  
 146 <213> ORGANISM: Homo sapiens  
 149 <220> FEATURE:  
 150 <221> NAME/KEY: MISC\_FEATURE  
 151 <222> LOCATION: (1)..(7)  
 152 <223> OTHER INFORMATION: Light Chain complementarity determinng region 2 (CDR2).  
 154 <400> SEQUENCE: 5  
 156 Asp Ala Ser Asn Arg Ala Thr  
 157 1 5  
 159 <210> SEQ ID NO: 6  
 160 <211> LENGTH: 10  
 161 <212> TYPE: PRT  
 162 <213> ORGANISM: Homo sapiens  
 164 <220> FEATURE:  
 165 <221> NAME/KEY: MISC\_FEATURE  
 166 <222> LOCATION: (1)..(10)  
 167 <223> OTHER INFORMATION: Light Chain complementarity determinng region 3 (CDR3).  
 169 <400> SEQUENCE: 6  
 171 Gln Gln Arg Ser Asn Trp Pro Pro Phe Thr  
 172 1 5 10  
 174 <210> SEQ ID NO: 7  
 175 <211> LENGTH: 126  
 176 <212> TYPE: PRT  
 177 <213> ORGANISM: Homo sapiens  
 W--> 178 <400> SEQUENCE: 7  
 180 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 181 1 5 10 15  
 183 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Ser Ser Tyr  
 184 20 25 30  
 186 Ala Met His Trp Val Arg Gln Ala Pro Gly Asn Gly Leu Glu Trp Val  
 187 35 40 45  
 189 Ala Phe Met Ser Tyr Asp Gly Ser Asn Lys Lys Tyr Ala Asp Ser Val  
 190 50 55 60  
 192 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 193 65 70 75 80  
 195 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 196 85 90 95  
 198 Ala Arg Asp Arg Gly Ile Ala Ala Gly Gly Asn Tyr Tyr Tyr Tyr Gly  
 199 100 105 110

## RAW SEQUENCE LISTING

DATE: 01/19/2006

PATENT APPLICATION: US/09/920,137G

TIME: 12:23:51

Input Set : N:\SMITH\PTO.TS18.txt

Output Set: N:\CRF4\01192006\I920137G.raw

201 Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
 202           115                   120                   125  
 206 <210> SEQ ID NO: 8  
 207 <211> LENGTH: 108  
 208 <212> TYPE: PRT  
 209 <213> ORGANISM: Homo sapiens  
 W--> 210 <400> SEQUENCE: 8  
 212 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly  
 213 1                   5                   10                   15  
 215 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Tyr Ser Tyr  
 216                   20                   25                   30  
 218 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile  
 219                   35                   40                   45  
 221 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly  
 222           50                   55                   60  
 224 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro  
 225 65                   70                   75                   80  
 227 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro  
 228                   85                   90                   95  
 230 Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys  
 231                   100                   105  
 234 <210> SEQ ID NO: 9  
 235 <211> LENGTH: 157  
 236 <212> TYPE: PRT  
 237 <213> ORGANISM: Homo sapiens  
 239 <220> FEATURE:  
 240 <221> NAME/KEY: MISC\_FEATURE  
 241 <222> LOCATION: (1)..(157)  
 242 <223> OTHER INFORMATION: human TNF alpha monomer sequence  
 244 <400> SEQUENCE: 9  
 246 Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val  
 247 1                   5                   10                   15  
 249 Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg  
 250                   20                   25                   30  
 252 Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu  
 253                   35                   40                   45  
 255 Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe  
 256           50                   55                   60  
 258 Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile  
 259 65                   70                   75                   80  
 261 Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala  
 262                   85                   90                   95  
 264 Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys  
 265                   100                   105                   110  
 267 Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys  
 268                   115                   120                   125  
 270 Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe  
 271           130                   135                   140  
 273 Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu

## RAW SEQUENCE LISTING

DATE: 01/19/2006

PATENT APPLICATION: US/09/920,137G

TIME: 12:23:51

Input Set : N:\SMITH\PTO.TS18.txt

Output Set: N:\CRF4\01192006\I920137G.raw

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274 145          150          155
276 <210> SEQ ID NO: 10
277 <211> LENGTH: 18
278 <212> TYPE: DNA
279 <213> ORGANISM: Homo sapiens
281 <400> SEQUENCE: 10
283   ttggtccagt cggactgg          18
285 <210> SEQ ID NO: 11
286 <211> LENGTH: 18
287 <212> TYPE: DNA
288 <213> ORGANISM: Homo sapiens
290 <400> SEQUENCE: 11
292   cacctgcact cggtgctt          18
294 <210> SEQ ID NO: 12
295 <211> LENGTH: 30
296 <212> TYPE: DNA
297 <213> ORGANISM: Homo sapiens
299 <400> SEQUENCE: 12
301   cactgttttg agtgtgtacg ggcttaagtt          30
303 <210> SEQ ID NO: 13
304 <211> LENGTH: 18
305 <212> TYPE: DNA
306 <213> ORGANISM: Homo sapiens
308 <400> SEQUENCE: 13
310   gccgcacgtg tggaagg          18
312 <210> SEQ ID NO: 14
313 <211> LENGTH: 25
314 <212> TYPE: DNA
315 <213> ORGANISM: Homo sapiens
317 <400> SEQUENCE: 14
319   agtcaaggtc ggactggctt aagtt          25
321 <210> SEQ ID NO: 15
322 <211> LENGTH: 28
323 <212> TYPE: DNA
324 <213> ORGANISM: Homo sapiens
326 <400> SEQUENCE: 15
328   gttgtcccct ctcacaatct tcgaattt          28
330 <210> SEQ ID NO: 16
331 <211> LENGTH: 18
332 <212> TYPE: DNA
333 <213> ORGANISM: Homo sapiens
335 <400> SEQUENCE: 16
337   ggcggtagac tactcgtc          18
340 <210> SEQ ID NO: 17
341 <211> LENGTH: 7
342 <212> TYPE: PRT
343 <213> ORGANISM: Homo sapiens
345 <400> SEQUENCE: 17
347 Met Asp Trp Thr Trp Ser Ile

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/920,137G

DATE: 01/19/2006  
TIME: 12:23:52

Input Set : N:\SMITH\PTO.TS18.txt  
Output Set: N:\CRF4\01192006\I920137G.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 1, 2, 3, 4, 10, 11, 17  
Seq#:3; Xaa Pos. 4, 5, 9  
Seq#:4; Xaa Pos. 7

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:32; Line(s) 490  
Seq#:33; Line(s) 508  
Seq#:34; Line(s) 528  
Seq#:35; Line(s) 550

## VERIFICATION SUMMARY

DATE: 01/19/2006

PATENT APPLICATION: US/09/920,137G

TIME: 12:23:52

Input Set : N:\SMITH\PTO.TS18.txt

Output Set: N:\CRF4\01192006\I920137G.raw

L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:178 M:283 W: Missing Blank Line separator, <400> field identifier  
L:210 M:283 W: Missing Blank Line separator, <400> field identifier